

FMEA  
EMU FAILURE MODE, EFFECT ANALYSIS

01/02/90 SUPERSEDES / /

ANALYST:

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Date: 06/11/90

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
SUIT PRESSURE TRANSDUCER, ITEM 114 ----- 9V767780-1/-2 413	Measures suit pressure. Pressure sensor range is 0-6 psid.	114FM07: Bricke at 4.2 psid.  CAUSE: Failure in the linkage bearing surface causing high friction.	PREEVA  EVA	END ITEM: False indication that suit pressure is within spec.  GFE INTERFACE: False indication that suit pressure is within acceptance limits (4.05-4.55 psid) after a subsequent falling open of 2130 regulator. No warning that suit pressure is high.  MISSION: None for single failure; next associated failure (SCP regulator, 2130, falls open) does not cause injury of crew.  CREW/VEHICLE: None for single or double failure. Loss of crew with subsequent loss of primary oxygen or suit leak after a SCP depletion.	FLIGHT: Yes. The CWS will tell the crewman when SCP comma "LOW".  GROUND: FENU-R-001, Para. 7.3.3.2.1.8. 19, Transducer and DCN Gage Calibration Check.	None.  TIME AVAILABLE: N/A  TIME REQUIRED: N/A	3/IR  A-PASS B-PASS C-PASS	Redundant paths are the suit pressurization circuit and the SCP. Flight rules direct mission continue. If suit pressure and primary oxygen use are within spec. SCP pressure low warning message is issued after double failure occurs.	None.

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